

FIG. 1 - PRODUCT CYCLE

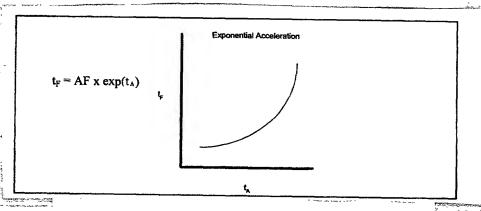


FIG. 2 - Exponential Acceleration

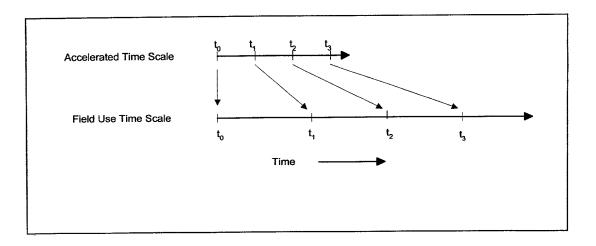


FIG. 3 - Correlation between Accelerated and Field Use Time Scales

UNIT A	CSS	HSS	RT	Vib		Average Time to Failure	λ
HALT 1 First Failure (time to failure in hours)	2	1.35	0.23	0.88	0.92 5	1.077	0.929
HALT 2 First Failure (time to failure in hours)	1.525	1.51	1.05	1.38	1.45	1.383	0.723

 \overline{R}^* (see eq. 6)

R^{*} (see eq. 7)	1.36	e Estimate	FOR RELATIVE LIFE
BOM MTBF	298462		
MTBF for Redesigned Unit	405908		
(see eq. 12) $VAR(\overline{R}^*) =$	0.614		
90% Confidence Limits for \overline{R}^* (see eq.10)			F16.4
Lower Li	mit -0.98		1 1011
Upper Li			
90% Confidence Limits for R (see eq.11)			
Lower Li	mit 0.374		
Upper Li	mit 4.90 0		

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UNIT B	CSS	HSS	RT	Vib	CE	Average Time to Failure	λ
HALT 1 First Failure (time to failure in hours)	1.23	1.38	1.38	1.48	0.18	1.13	.88
HALT 2 First Failure (time to failure in hours)	2.03	1.38	.225	1.83	.225	1.14	.88

ESTIMATE FOR RELATIVE LIFE R

FIG. 5

 \overline{R}^* (see eq. 6)

0.0

R (see eq. 7).	
BOM MTBF	232000
MTBF for Redesigned Unit	232000
(see eq. 12)	
···	0.516

 $VAR(\overline{R}) =$

90% Confidence Limits for \overline{R}^*

(see eq.10)

Lower Limit -1.18

Upper Limit 1.18

90% Confidence Limits for R

(see eq.11)

Lower Limit 0.306 Upper Limit 3.25**0**

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UNITC	css	нѕѕ	RT	Vib	CE	Average Time to Failure	λ	
HALT 1 First Failure (time to failure in hours)	1.48	1.20	0.55	1.22	0.81	1.05	0.95	
HALT 2 First Failure (time to	1.87	1.30	1.67	1.06	0.33	1.25	0.80	

 \overline{R}^* (see eq. 6)

0.20

				43.5
Prise et 7	1.22	ESTIMANELEO	RRELATIVE LIFE	
BOM MTBF	363300			
MTBF for Redesigned Unit (see eq. 12)	443226			
	0.53			Market All Address Service State Co. C.
VAR(\overline{R}^*) = 90% Confidence Limits for \overline{R}^*		E	1G.6	
(see eq.10)				ing white is the server of the
Lower Lin				
Upper Lin	nit 1.39			
90% Confidence Limits for R				
(see eq.11) Lower Lir	nit 0.368			The second secon
Upper Lir)